

CLAIMS

1. A hydrogen generating apparatus comprising a fuel feeding part, a water feeding part for fuel reforming, an oxidant gas feeding part, a reforming catalyst body, a heating part for said reforming catalyst, a CO shifting catalyst body and a CO purification catalyst body, the reforming catalyst body, the CO shifting catalyst body and the CO purification catalyst body being placed sequentially in the order from said fuel feeding part toward the downstream side, wherein,

a fuel and water are fed to said reforming part which has been heated,

an oxidant gas from said oxidant gas feeding part is mixed with each of said reformed gas introduced into said shifting part and a shifted gas obtained in said shifting part and introduced into said purification part, and

at least a part of said reformed gas and at least a part of said shifted gas are oxidized respectively in said shifting part and said purification part.

2. The hydrogen generating apparatus in accordance with claim 1, wherein a shifting catalyst of said shifting catalyst body contains as one component at least a platinum group-type catalyst.

3. The hydrogen generating apparatus in accordance with claim 1, wherein said apparatus has a shifting

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7. The hydrogen generating apparatus in accordance with claim 1, wherein each of said reforming catalyst body,

12. The hydrogen generating apparatus in accordance with claim 11, wherein a temperature detecting apparatus is provided at a position near said filter.